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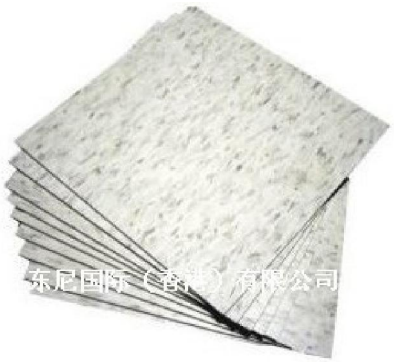
Toys Testing Machines for ISO8124/EN71/ASTM F963 Mechanical and physical properties

Item 1.

TW-200 Drop Test Plate (drop test)



Simulate the real floor, to test the toys fall on the floor of the toys produced after the destruction and damage caused by the impact of whether the product meet the requirements dropped

Specification:1/8″ ×12″ ×12″ (3mm thickness) 9 pcs

Material: polyethylene

Hardnes: Shore 80±10

Standards:ASTM F963 8.7.1; **ISO 8124-1 5.24.2**

weight: 6kg

The impact surface shall consist of vinyl composition tile of approximately 3 mm nominal thickness laid over concrete of at least 64 mm thickness. The tile shall have a hardness of (80 ± 10) Shore A and the impact surface shall be at least 0,3 m^2.

For battery-operated toys, the recommended batteries shall be in place during the drop test. If no specific type of battery is recommended, the heaviest battery which is generally available shall be used.

Table 4 — Drop test

Age group	Mass criterion kg	Number of drops	Drop height cm
Under 18 months	< 1,4	10	138 ± 5
18 months and over but under 96 months	< 4,5	4	93 ± 5

After each drop, the toy shall be allowed to come to rest and shall be examined and evaluated before continuing.

Determine whether the toy continues to conform to the relevant requirements of Clause 4.

laboratory

Item 2.

TW-200B EN71 Drop Test Plate (drop test)

Simulate the real floor, to test the toys fall on the floor of the toys produced after the destruction and damage caused by the impact of whether the product meet the requirements dropped

Specification：2mm Rubber+4mm SST Sheet 600mm×600mm

Hardnes: Shore 75±5

Standards: **EN71-2011 8.5 drop test**

Estimate the groups of ages applied to the toys tested according to the table below

standard / requirements / title	Age group	weight of toys	drop height	times	drop surface
CPSC / ASTM F963—96a	0-18 months	Less than 3 ± 0.01LB	54.5 ± 0.5 inches	10 times	ASTM / CPSC floor
	18-36 months	Less than 4 ± 0.01LB	36.5 ± 0.5 inches	4 times	
	36-96 months	Less than 10 ± 0.01L.	36.5 ± 0.5 inches	4 times	
EN71	0-14 years old	No limit	850 ± 50mm	5 times	EN71 floor

The Safety Requirements of Toys Drop Test in Some International Districts

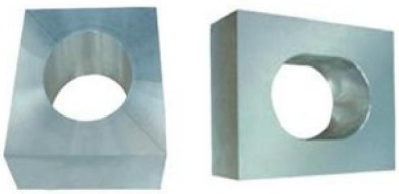
requirements / standard	age	weight of toys	drop height	times	drop surface
Australia AS 1647	0-18 months 18 -168 months	specification	59 inches 39.5 inches	10 times 4 times	CPSC / ASTM floor
England BS 5665 France NF 51-202	According to the standard of EN71				
Standard in Canada	≤3 years old >3 years old	specification	4.5 inches 3 inches	4 times 4 times	CPSC / ASTM floor
Standard in Japan	No age section	specification	85 ± 5cm	5 times	OPSC / ASTM

					floor

Item 3.
TW-201 Impact Tester (impact test)

Reduce the material damage or the danger of imitation toys protection devices as the real face.
Range: imitation protect device (clear material protector, headpiece,cap,blinker)
Standards: **EN 71-2011 8.7 impact test.**
specifications:
1. dimension: 300(l)x300(w)x16(h)mm
2. adjust height: 0-200mm
3. impact hammer diameter: 80.00mm
4. impact hammer weight: 1Kg (hammer and rod)
5. with metric / lmperial unit height dicate ruler
   Made of stainless steel

Item 4.
TW-203 Rattle Test Fixture (Geometric shape)



Oval / round bell tester (sound toy test template) is a simulation of children's oral capacity to detect parts on the toys or toys may cause choking or swallowing, and dangerous

Material: aluminum alloy, surface oxidation
Size: 80*65*30mm (oval template)
      73*73*30mm (round template)
Packing size:230*135*90mm
Weight:600g
Made of Aluminium material

standard: 16 CFR 1510; ASTM F 963 4.21; **EN71-2011 8.16 Geometric shape of certain toys**; GB6675-2003 A.5.3
made of Aluminium material

Dimensions in millimetres

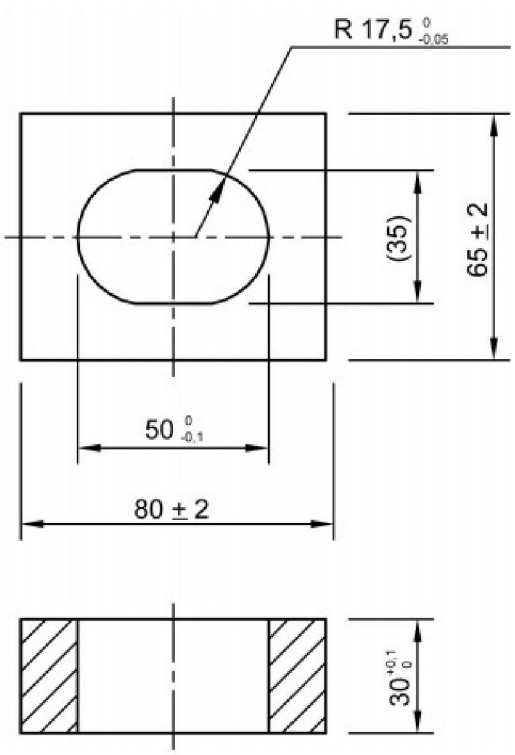


Figure 24 —Template A

Dimensions in millimetres

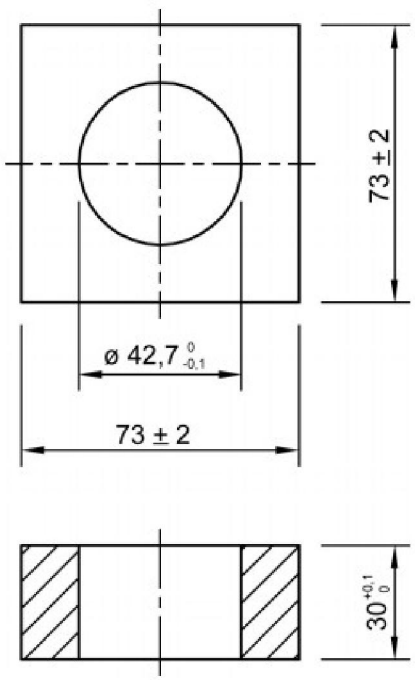


Figure 25 — Template B

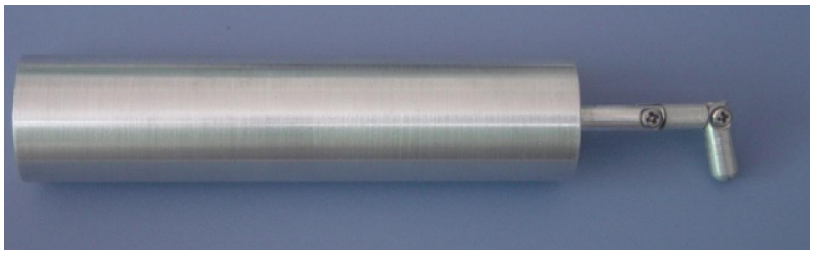
Orientate the toy in a position which would most likely permit the entry of the toy through the slot in template A. Place the toy in the slot so that the force on the toy is only the force due to its mass.

Determine whether the toy passes through the slot or whether any part of the toy protrudes past the base of template A.

Repeat the procedure for toys with nearly spherical, hemispherical or circular flared ends using template B shown in Figure 25.

Item 5.

TW-204 Accessibility Probes AB



To determine whether any part or component of a toy can be contacted by the probe. The probe simulates the finger of the infant or child touching the accessible points or edges of a toy, which may then be subject to tests of sharp points or sharp edges.

Accessibility probes are designed for two age groups:

Probe A for 0-36 months

Probe B for 37-96 months

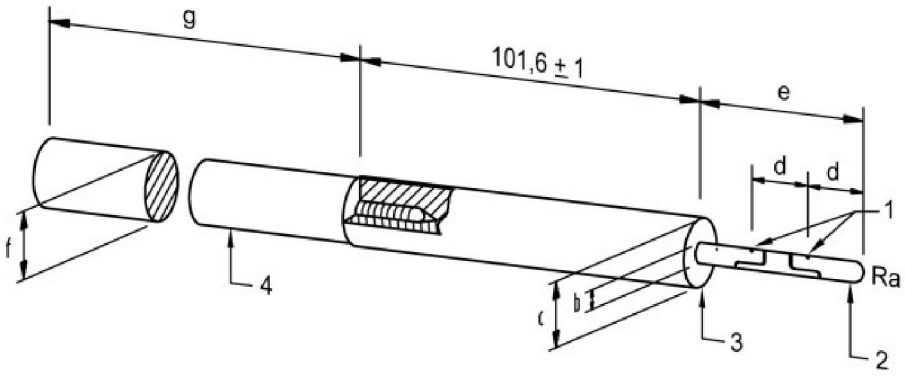
Standard: **ISO8124--1: 5.7 accessibility of a part or component, EN71-1 2011 8.10**

Net weight:330g

NOTE 2 Each probe joint may be rotated up to 90° to simulate knuckle movement.

NOTE 3 Where the part is a sharp point that lies adjacent to a plane surface so that the gap between the point and the surface is 0,5 mm or less, the point is considered to be in*accessible* and the procedure specified in b) need not be performed.

Dimensions in millimetres



Key

1 pivot points
2 spherical radius (R_a)
3 collar
4 extension

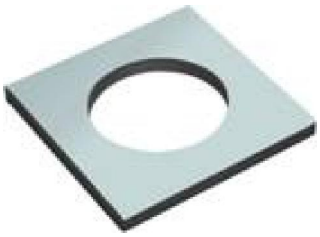
Figure 21 — Accessibility probe

EN 71-1:2011 (E)

Table 1 — Dimensions of accessibility probes

Age group	Probe	Dimensions (mm)						
		R_a	b	c	d	e	f	g
Under 36 months	A	2,8	5,6	25,9	14,7	44,0	25,4	464,3
36 months and over	B	4,3	8,6	38,4	19,3	57,9	38,1	451,6
Toys intended for children of both age groups	A and B (both probes shall be used)	According to specifications above.						

Item 6.
TTW-205 Test Fixture for Small Ball



Small ball test fixture is use to examine a toy up of whether small ball accessories may result in the child swallow, stop breath way and esophagus to cause choking danger or not.
Standards:16CFR 1510 / ASTM F 963 4.6.2 /EN71-1 2011 8.32.1/**ISO 8124-1 5.4 small balls and suction cups** GB6675-2003 A.5.3
made of Aluminium material

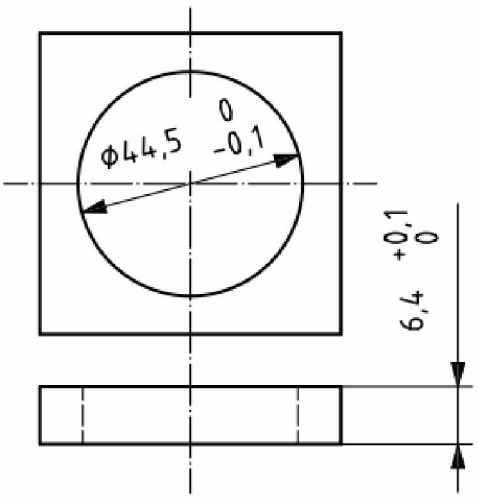


Figure 18 — Test template C

Item 7.

TW-206 Small Parts Cylinder

To determine whether toys & other articles intended for use by children under 3 years old present choking, aspiration, or ingestion hazards because of small parts. If any objects can fit completely into the cylinder without compressing & in any orientation, it is defined as a "Small Part". Its internal dimensions simulate the fully expanded throat of a child under 3 years old.

Standards: 16 CFR 1500.48, ASTM F963 4.8, **EN-71-1 2011 8.2 small parts cylinder**, ISO 8124

Dimensions: 70*38*38mm

Weight: 430g

Dimensions in millimetres

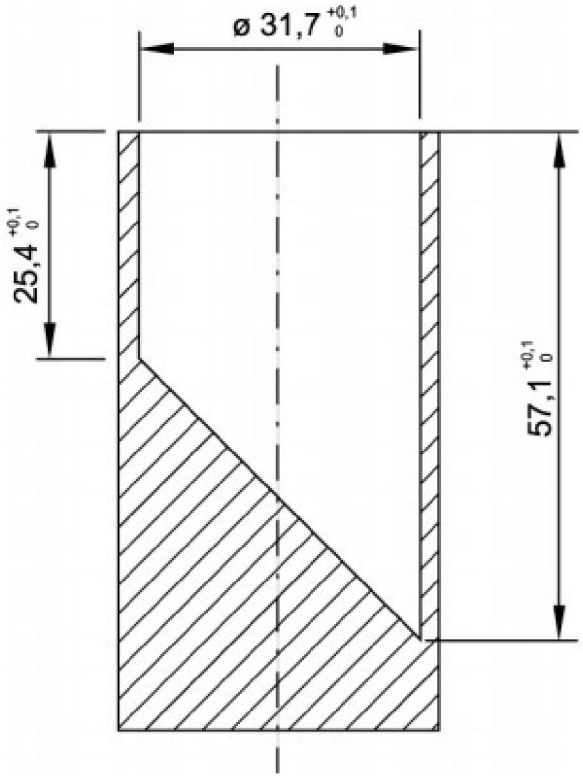


Figure 18 — Small parts cylinder

Item 8.

TW-207 Bite Test Clamp

Simulates a child biting the accessible area of toys. The part of the toy being tested is placed in a bite test clamp & a specified force is applied for a specified period. The toy is then tested to ascertain whether or not any hazards result from the bite test such as sharp points/ sharp edges / small parts.

Dimensions:95*45*45mm

Weight:760g

Standard: ASTM F963, 16CFR 1500.52C, ISO8124-1 4.5

Purpose: The establishment of bite force testing method for imitating children who playing toys or other things, using mouth to bite the toys result to the possibility of damage or misuse.

2. Applies to:

2.1. Applies to toys or objects played by children under 8 years old.

2.2. The external dimensions is 1.25 inches ± 0.05 inches (3.18cm) or smaller, and the design allows children to insert mouth in any way. When biting a thickness is 1.25 inches ± 0.05 inches (3.18cm), the insert depth is 0.25 inch at least .

2.3. Apply to mouth toys

2.4. This test is suitable for USA 16 CFR 1500.51,1500.52,1500.53 ‘s requirements

Item 9.

TW-211 Liquid Leak Test Needle

Diameter 1MM, the top radius 0.5MM, load 5N, for leakage testing,

Standard: **ISO 8124-1 5.19**/EN71-1 8.15 Leakage of liquid-filled toys; GB6675 A.5.19

Dimension Tolerance: + /-0.05mm

The thread needs the 0-100N push-pull meter.

Item 10.
TW-219 Projectile Velocity Tester

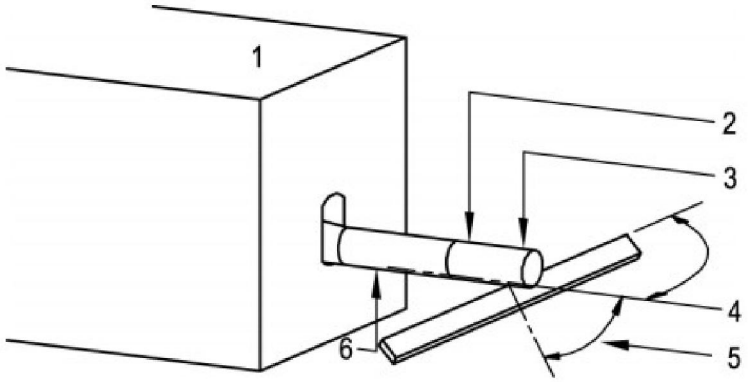
To determine the size catapults kinetic energy of toys, the ejection of parts of the test apparatus through the tube or external testing of the components of the two sensors detect the ejection toy parts used away after a certain period of time, it has calculated the move Energy. The main instruments used for this test launch of baby toys or children's safety.
Clock out: 1 MHz
Display: 7 digit
Display rang : 0.000001 to 9.999999 sec
Projectile size: Large than 2mm diameter
Small than 35mm diameter (for internal sensor)
Sensors distance: Fixed 150mm (internal sensor)
Adjustable: 40mm - 420mm (external sensor)
Dimensions: 240mm×310mm×130mm.
Weight: 8kg
Standards: **ISO 8124-1 4.18:5.15 Kinetic energy of projectiles, bows and arrows**

Item 11.
TW-220 Sharp Edge Tester

The Sharp Edge Tester is used to touch to examining a toy of position whether the existence endanger safe sharp-edged edge, belong to the test item of the toy safety.

Dimensions: 260*120*180mm(L*W*H)
Weight: 1.99 kg
Standard: **ISO 8124-1 4.6,5.8 sharp-edge test**,, EN71-1 2011 8.11 Sharpness of edges
Accessories:
charging unit 1 pcs
foot switch 1 pcs
base plate 1 pcs
Standard import sharp edge tape 1 roll **PTFE**

The apparatus shall be as illustrated in Figure 22.



Key

1 any suitable device, portable or non-portable, to apply a known force and rotation to the mandrel
2 (6 ± 0,5) N applied to the mandrel axis
3 single wrap of self-adhesive *tape*
4 (90 ± 5)° (test *edge* relationship to mandrel)
5 variable angle to seek worst case situation
6 during the test the mandrel rotates one full revolution

Figure 22 — Edge test apparatus

Item 12.

TW-221 Sharp Point Tester

The Sharp Point Tester is used to examine a toy of position whether the existence endanger safe of sharp-edged sharp point. Belongs to the test item of the toy safety; All accessorieses is made of nonrust material . The technical parameters requirement of all countries is consistent.
Dimensions: 112x 16x16mm
Weight: 1 pound
Standards:
16 CFR 1500.48, ASTM F963 4.8, EN-71 2011 8.14, **ISO 8124-1 5.9 sharp point test**
Accessories:weight,batteries 2 pcs,bulb 2 pcs
Optional Accessories:
TN-W03 bulb
TN-W04 battery

Range:

1. This test applies to toys and items for children under the age of 8 used in the normal use and both beofre and after abuse test(excluding the bite test) result in contact part-ASTM/ CPSC.
2. This test applies to toys and items for children under the age of 14 used in the normal use and both beofre and after abuse test(excluding the bite test) result in contact part-EN71

Definition:

4.1. Accessible point – use the point tester described in 16 CFR 1500.49 or EN71 18.10 to test any gap on toys

4.2. Toys -- It is means any kind of toy games or other toys for children which is identified by any design, label advertising or other items.

4.3. Sharp point –- There are metal or glass sharp point in toys which must be tested by point tester. If the indicator lamp lights up, then the sharp is identified as sharp point.

4.4. Inaccessible point – If the gap between metal or glass sharp point and other neighboring surface is less than 0.02 inch after both before and after abuse test (excluding the bite test), then such sharp point is inaccessible point.

4.5. Glass – It is a no crystallization of hard-brittle material that made from silica and silicate

which contains soda and lime ingredients under the result of melting.

Item 13.
TW-224 Nail Bed Flammable Tester

Nail Bed Flammable Tester.Used in the detection part of the combustion of flammable hair, and record the time, to see whether the burning of part of the meet flammability standards
Dimension: 25.4*25.4cm
Standard: ASTM F963, ISO 8124-2

Item 14.
TW-225 Surface Flammability Tester

I. Introduction

一、Purpose:This instrument is used in the examination down or the superficial knowledge fabric's flammability.
二、Principle: Butane burner is traversed across the face of the fabric to determine whether surface flash occurs and to record any damage to the base fabric.

三、Applied standards: The instrument manufactured according to BS 4569 or EN71-2 standard.

II. Instrument description

一、 physical construction:

1. **physical construction:** (figure 1)

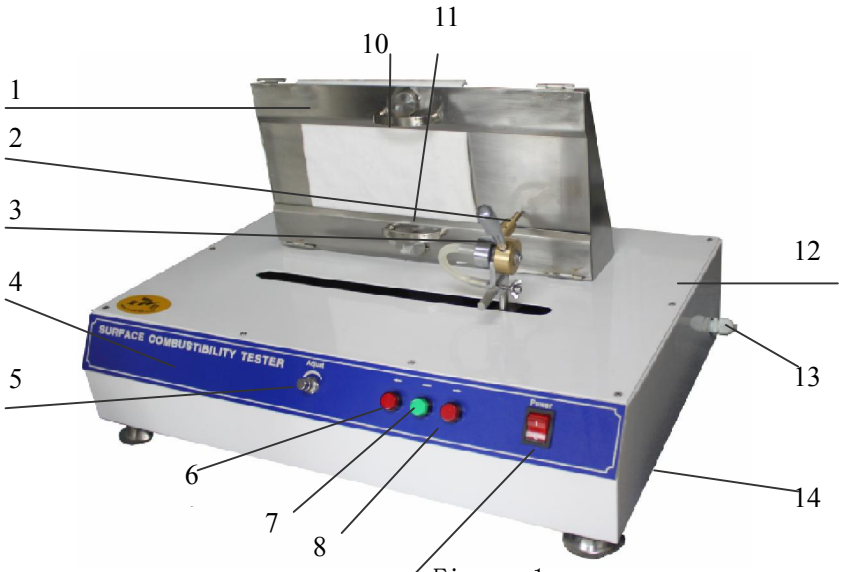


Figure 1

1.fixture board
2.burner
3.angle handle
4.control panel
5.flame adjustment knob
6.left shift buton
7.automatic button
8.right shift button
9.power switch
10.upper fixture
11.lower fixture
12.top plate
13.gas enter
14.base

1. 2. function description:

- fixtrue board and the fixtures: sample holder,easy and fast to clampl the test sample.
- burner: used to produce the required flame
- angle handle: used to change the burner direction(horizontal and vertical)
- flame adjustment knob:used to adjust the flame burning altitude
- left shift button: move the burner to left direction manually
- automatic: press this button to make the burner travelling the stroke automatically
- right shift button: move the burner to right direction manually
- power switch: power on or power off
- gas enter: burning gases connection

二、 Technical parameters (Table 1):

items	specification
fixture length	400mm
burner move speed	150±5mm/s

burner stroke	≥300mm
fabric plush altitude	70mm
Space between two fixtures	100mm
sample dimension	length 200mm,width≥130mm,
sample amount for test	2 pcs
space between burner and sample surface	5mm
space beteen burner center to lower fixture	15mm
burning gases	butane gas
size(WxDxH)	60x41x32cm
weight(Kg)	≈20Kg
power	1∮ AC 220V 5A

Table 1

Item 15.

TW-226 Toys Comprehensive Flammability Tester

It is used for testing the flammbility of toys,children clothes,evalute the following toys flammability speed,time.

Testing the child clothing or the toy and accessories's flammability , appraises the following toy type the repidity of the flammability and time

The PLC control, the time is accurate, English man-machine contact surface

The different test method provides different sample jig

clamps are easy to operated

The jig may adjust willfully, suits different sample

Comply to standard EN71-2 2011**, ISO 8124-2 5.2/5.3/5.4/5.5/5.6 2007**

Summary

This tester was designed according to EN71-2008 standard, both sell to overseas and dometic market.

(1） Adopt the mininsize gas cylinder system, the instrument can be moved, take up small space. The user also can connect big gas cylinder.

(2) The gas system is controlled by PLC, ignite and continue burning time are accuracy,

(3) All frames can be adjusted to meet different testing need.

This instrument applies to test the performance of flame retardardant of toys for children, completely applies to EN71-2-2008.

Main technical parameters

1、Ignition time set range:0~99.99S Precision:0.01S

2、continue burning time range :0-999.9S precision0.1S

3、Please put this flammability into a cabinet to make test.

4、Ignition mouth size: applies to IS0 6941 standard.

5、Dimension of specimen: 150mmX560mm

6、Power: AC200V 50Hz

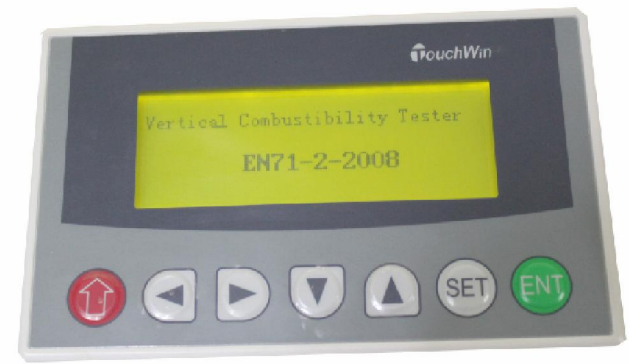
7. Weight:40KG

8 Gas: butane gas。

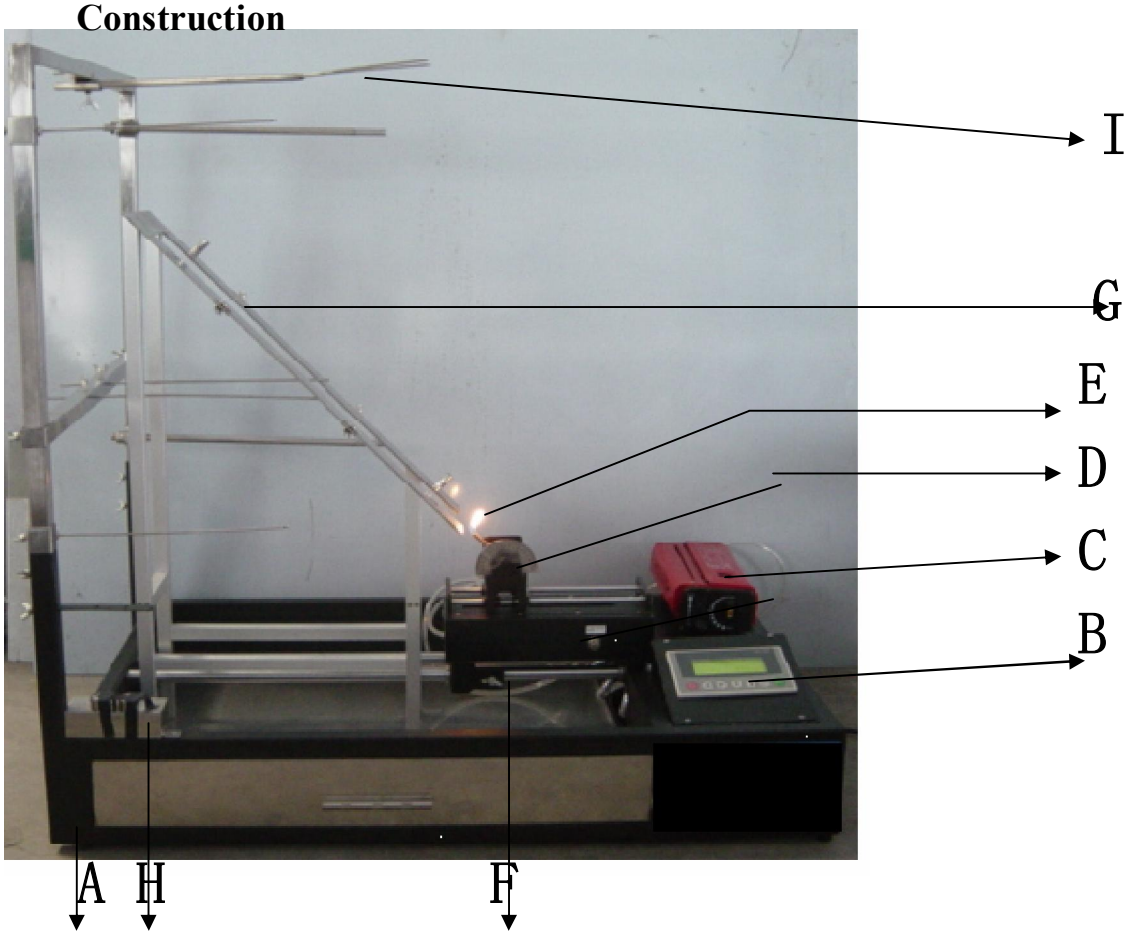
9 Thread: white cotton thread.

Gas Device

Control Panel

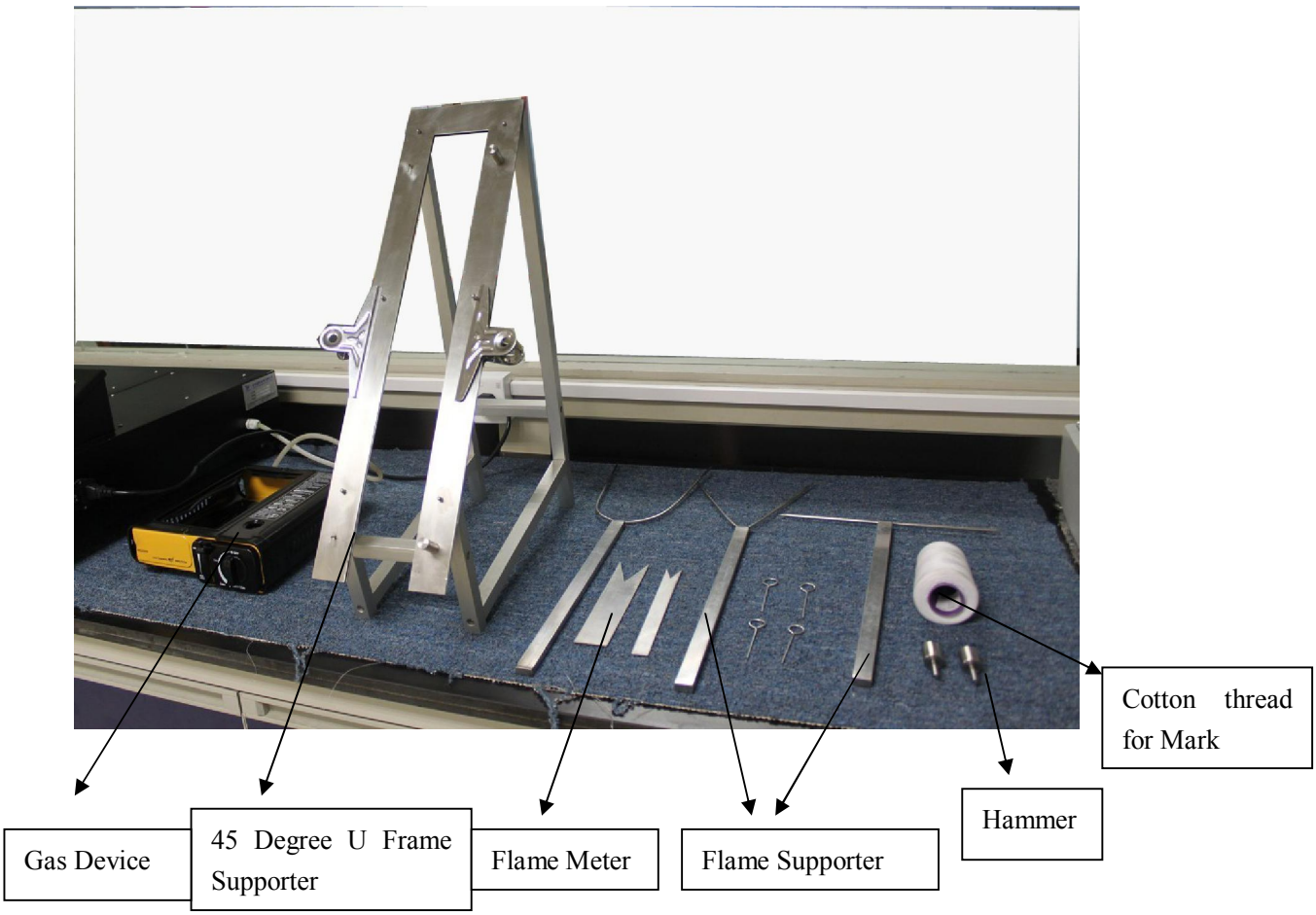


Construction



A**:** Baseplate used for collecting the toy combustion residue, facilitates clean.
After using in collects the toy combustion residue, facilitates cleanly
B: Control panel
C: butane cylinder
D: burn head
E: ignition mouth (applies to ISO 6941 standard)
F: Burner
G: 45degree U type test clamp
H: The first , second mark thred hammer and min switch
I: Head fix frame

Spare Parts for the EN71 Toys Flammability Testing



Gas and Flame Lighte (but could not be sent as the forbidden goods)

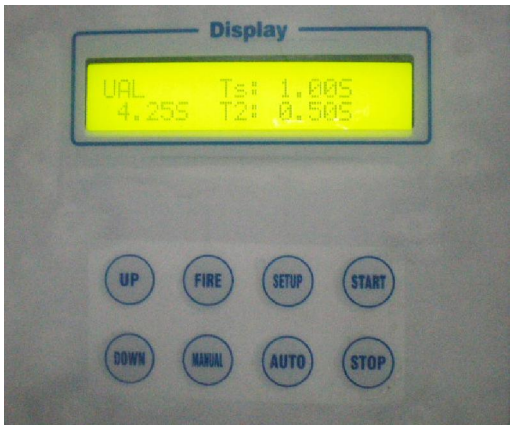
Item 16.

TW-227 45 degree Flammability Tester

Brushing device

45 degree flammability tester, check the flammable performance of the textile
Stainess testing room with glass window,after ignition automatic time (0.01 second precision) automatic or
parameters：
Manual firing device, including sample holder and brushing device.
Spread time scope: 0-99.99s
Firing time: 1s or specified
Resolution: 0.01s
Igniter model: comply to ASTMD1230
Standards: ASTM D1230 FTMS 191-5908 **CRF 16-1610** CALIF TB 117 NFPA 702 **ISO 8124-2**
Power Supply: 220V

Control Panel



1.Button Function
Ts：Ignition Time
T1：Spread Time
T2：Smoldering Time
START：Start button, to make the equipment start to test.
STOP：stop button, to stop running the equipments.
TETUP：setting button，using to set the ignition time.
MANUAL：manual button, Press START button while pressing this button, fire mouth repeat to move up and down.
FIRE：Ignition button

AUTO：automatic button，can switch manual status back to automatic status.
Press SETUP button, Ts showed a flashing indication on the left, through the UP, DOWN keys to change the value, press the SETUP key to exit the setting mode.

Item 17.
TW-228 Toy Box Cover Durability Tester

The machine applies to test the durability of toys lid switch that can be repeated.Through toys ld movements by the driven force of a rotating pendulum, to simulated hinged part of the toy lid is intact or not after a certain number of repeated opening and closing movements.

item	specification
Sample for test	One pcs for each test
Test speed	15 second for opening and closing movement each cycle.
pendulum rod moving angle	0°~80°
Test times	7000 times
Counter	LED display， 0~9999 times
Max height	700mm
Gas source	6kgf/cm^2
Dimesion(WxDxH)	97.5x35x126cm

Weight	约 30kg
Power	1∮ AC 220V 3A

Box cover durability tester.

Control mode: Controlled by Micro-computer automatically

Action mode: Electromotion or Automatism

Test pieces: Stop automatically

Standards: 16 CFR 1500, ASTM F963 4.8, EN-71, **ISO 8124 -1 5.13**

Item 18.

TW-229 Mouth Toy Endure Tester (Gas operated type)

To prevent mouth moving toys or children's mouthpiece has been mistakenly inhaled and cause a choking hazard

Features: 1. Instruments to meet the 5s at least 295 cubic centimeters within + / -10 cubic centimeters of gas, and can be 10 times alternately blowing, suction toy.

Specification:

Test speed 120/min

Specimen Fixture casing 2 groups

barometer ±15Kpa adjustable

power:220V/50Hz,3A.

dimension (L*W*H):650×400×260

Weight: 15 kg

standards:EN71.8.17, **ISO 8124-1 4.25,5.20**,ASTM F963 8.13 Durability Test for Mouth-Actuated Toys.

It needs additional air compressor by customer.

Item 19.

TW-229 Mouth Toy Endure Tester (electrodynamic type)

侧面图

正面图

面板图

配件图

To prevent mouth moving toys or children's mouthpiece has been mistakenly inhaled and cause a choking hazard

Features: 1. Instruments to meet the 5s at least 295 cubic centimeters within + / -10 cubic centimeters of gas, and can be 10 times alternately blowing, suction toy.

2.This instrument is electrodynamic type, has air source inside, no need additional air compressor.

Specification:

Test speed 120/min

Specimen Fixture casing 2 groups

barometer ±15Kpa adjustable

power:220V/50Hz,3A.

dimension (L*W*H):600*400*240mm

Weight: 35 kg

standards:EN71.8.17, **ISO 8124-1 4.25,5.20 durability of mouth-actuated toys**

Item 20.

TW-230 Sound Level Test Stand / Acoustic testing equipment

Noise testing device TW-230

Energy along the X, Y, Z (X displacement:0-1000MM; Y displacement of 0-1700MM; Z displacement: 0-1800MM) slide freely positioning the three directions.

Flat with horizontal and vertical angle adjustment instructions: 0-1800;

Optical ranging device, measurement noise, the distance between the meter and toys;

Dimension (L * W * H): about 1880 * 1150 * 2200mm

Material: Aluminum

Item 21.

TW-246 EN 71 Compression Head

dimension:28*28*19mm

diameter 30 mm round rod

Standard: EN71-1 2011 8.8 /**ISO 8124-1 5.24.7**compression test

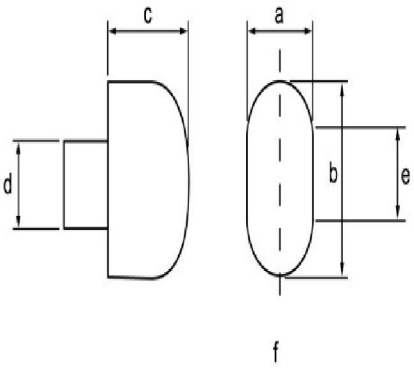
made of Aluminium material

Item 22.

Head Probe C (EN71-1 2011)

Head probe for EN 71-1: 2011, 5.3, A.29 Cords

head probe representing children of less than 3 months, to test the cords and chains in toys



Key

a 96 mm
b 124 mm
c 112 mm
d 42 mm
e 28 mm
f probe main axis

Figure A.1 — Head probe (representing children of less than 3 months)

This probe is 96 mm in width, has two hemispherical ends with a radius of 48 mm and, as a consequence, a short flat side *e* which is 28 mm in length. The total perimeter of the probe is therefore 357 mm.

Item 23.

TW-260 Sound Level Meter

The Sound Level Meter has been designed to meet the measurement requirements for industrial safety offices and sound quality control in various environments.
Test range: 30 to 130 dB
Dynamic Range: 60dB
Resolution: 0.1dB
A and C frequency weighting
Maximum and minimum volume includes occurs time
Fast time , slow time weighted.record and read the manual volume
Standards: IEC61672-1 : 2002 Class 2 .**ISO8124-1 4.28 Acoustic requirements**
IEC60651 : 1979 Type 2
ANSI S1.4 : 1983 Type 2
Digital Display: LCD 4 digit display, 0.1dB resolution, 1 second
Analog Display: 60 bar code instructions, 1dB resolution, 8 times per second
Test Range:30dB - 130dB
Measuring frequency range: 31.5Hz - 8KHz
Microphone 1 / 2 inch class of condenser microphones

TES-1350A Noise Meter

Range:
A LO (Low) - Weighting: 35- 100dB
A HI (High) - Weighting: 65-130dB
C LO (Low) - Weighting: 35- 100dB

C HI (High) - Weighting: 65-130dB

Resolution: 0.1dB
Frequency Range: 31.5Hz to 8KHz
Accuracy:±2dB
Dynamic Range:65dB
Frequency Weighting: A、C
Time Weighting: Slow & Fast
Maximum Hold: Decay < 1dB/3min
Microphone: Electret condenser microphone
Calibration: Electrical calibration by using the internal oscillator (1KHz sine Wave at 94dB)
Auxilitary Output: AC conditioned, 0.65Vrms corresponding to each range step, impedance: 600 W
DC conditioned, 10mV/dB (nominally)
Operating Condition: 0℃ to 40 ℃< 80% R. H.
Storage Condition: -10℃ to 60 ℃< 70% R.H.
Display: 3 1/2 digitals
Power Supply: one 9V battery
Size: 240mm(L)x68mm(W)x25mm(H)
Accessories: Instruction Manual,9V Battery,Carrying Case,Screwdriver,Windscreen.
Standard applied: IEC 651 Type2

Item 24.
TW-270 Inclined Plane Device for Stability Test

Inclined plane device angle ajustable range: 0-15degree
Aluminum frame
Inclined plane use imported plate,19mm Fine core plate
Use P60 alumina and abrasive paper to cover the plane.

oblique plane size:W*L1000*3000mm
Use the toys can be loaded one child weight.
Loading on the toys,which is worst standing position or seating position,
Children below 36months（including）Loading 25kg±0.2kg,
Children above 36months,loading 50kg±0.2kg
Loading on the toys,put the toys on the 10±1degree Inclined plane
If the toys can be loaded one child weight.standing or seating should be testing,to determine whether the toys will be fall down
Heavy immobile toys,put the toys on 5°±1° oblique plane,ajust removable parts position,get the worst position to test.
Standards: ASTM 963 ,EN71 8.18.1, **ISO8124-1 5.28/29**

Item 25.
Static Strength Weight TW-268

Place standard load on the surface of standing toy or riding toy.Then move the load,measure toy whether there is crack in any accessories,whether they can meet the related standard.
Less than or equal to 36 months: 25KG weight +-0.2KG
More than 36 months: 50 KG weight + 0.5 KG
Standards: ASTM 963 ,EN71 8.18.1, **ISO8124-1 5.26/28/29**
Model: TW-268A 25KG Weight; TW-268B 50KG Weight

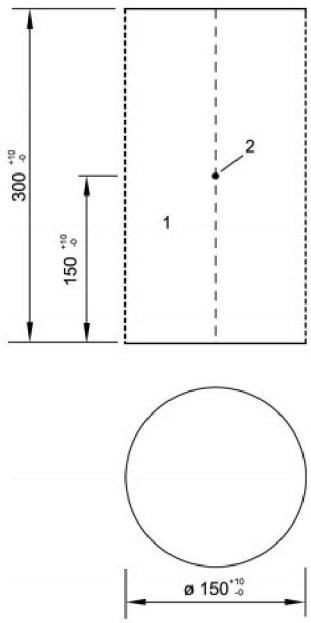
8.18.1 Loads

Load the toy with a mass of (50 ± 0,5) kg.

For toys labelled as not suitable for children of 36 months and over, load the toy with a mass of (25 ± 0,2) kg.

The dimensions of the load are given in Figure 26.

Dimensions in millimetres



Key
1 mass, < 36 months, 25 kg
mass, ≥ 36 months, 50 kg
2 centre of gravity

Figure 26 — Load for determination of strength and stability

Item 26.

TW-269 25kg /50kg Dynamic Strength Weight

specification

part weight(Kg) diameter(mm) height(mm)

a 10.42 150±2 75±2

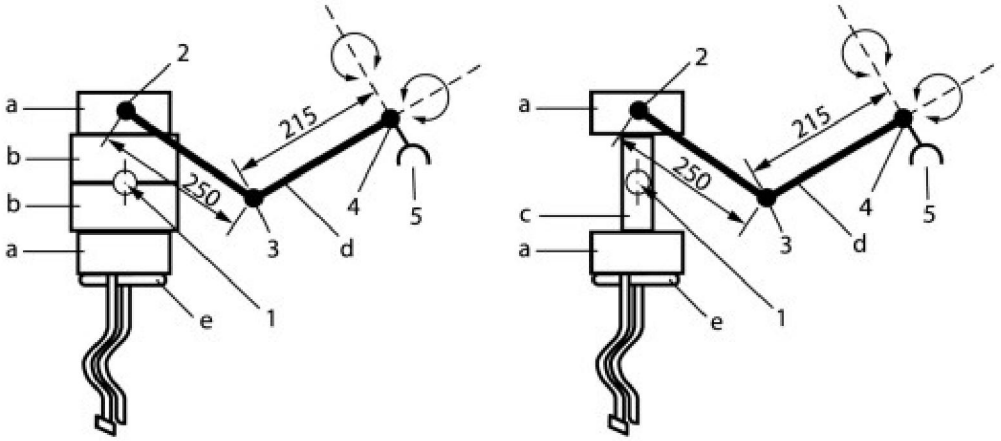
b 14.58 178±2 75±2

c 4.16

d 2.00

e 0.50

Standard: EN71-1 2011 8.22.2, **ISO8124-1 5.27**



a) Load A for toys intended for children of 36 months and over

b) Load B for toys labelled as not suitable for children of 36 months or over

Specification of loads for determination of dynamic strength			
Part	**Mass** kg	**Diameter** mm	**Height** mm
a	10,42	150 ± 2	75 ± 2
b	14,58	178 ± 2	75 ± 2
c	4,16		
d (each)	2,00		
e	0,50		

Key

1 centre of gravity
2 spherical joint
3 1-way joint
4 2-way joint
5 clamp
d articulated arms
e cushion with *straps* (removable)

Figure 29 — Loads for determination of dynamic strength

Item 27.
TW-232 Flat Claw Clamp

Used for assisting pull testing,made of stainless steel
Dimension: 167*60*13MM
Standards: **ISO 8124-1 5.24.6.1 tension test**

Item 28.
TW-233Hair Claw Clamp

Used for assisting hair tension testing
Dimension: 116*82*16MM
Material: stainless steel fixture, rubber grip
Standards: **ISO 8124-1 5.24.6.1 tension test**

Item 29.
TW-234 Long Mouth Clamp

used for assisting pull testing , made from adaption of USA VISE-GRIP 6LN
Dimension: 218*43*13MM
Material: stainless steel
Standards: **ISO 8124-1 5.24.8 flexure test**

Item 30.
TW-236 Big Mouth Clamp

used for assisting pull testing , made from adaption of USA VISE-GRIP 5WR; 7CR; 10CR redo
Dimension: 190*49*14MM
Material: stainless steel
Standards: **ISO 8124-1 5.24.6.1 tension test**

Item 31.
TW-237 Pull Hook

Used for wheel pull testing fixture, made from stainless steel
Dimension: 210*31*25MM
Material: stainless steel
Standards: **ISO 8124-1 5.24.6.1 tension test**

Item 32.
TW-238 Single Tension Hook

Horizontal type,made from stainless steel
Dimension:110*31*20MM
Standards: **ISO 8124-1 5.24.6.1 tension test**

Item 33.
TW-239 Two Claw Clamp

Stainess steel, used for testing eyes, nose etc....
Dimension:105*30*25MM
Standards: **ISO 8124-1 5.24.6.1 tension test**

Item 34.
TW-240 Three Claw Clamp

Stainess steel, used for testing eyes, nose etc....
Dimension: 105*37*26MM
Standards: **ISO 8124-1 5.24.6.1 tension test**

Item 35.
TW-241 Seam Clamp

For assisting suture pull testing used. Made from adaption of USA VISE-GRIP 6LN
Specification: **jaw diameter19 mm**, round handle
Standards:ASTM F963 8.9.1.1, EN71-1998 8.4.2.2, **ISO8124-1 5.24.6.2; 5.24.6.3**
Size: 218*40*22MM
Length: 6 inches

Item 36.

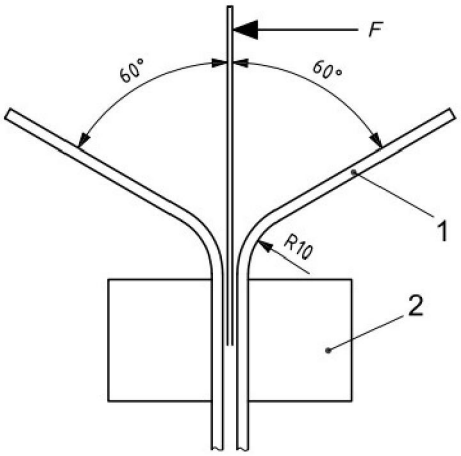
TW-243A Torque Clamp (big size)

Used for clamping the sample during the wrest testing
Stainless steel and aluminum, and copper
Single screw type,big size
Standard: **ISO8124-1 5.24.5 torque test**

Item 37.

TW-247 ASTM/EN Flexure Test Fixture

Used to test the toys from the increase in rigidity or fixed shape of the metal wire or other metal materials used in the bending (or abuse) the process, whether due to fracture a risk of a sharp tip or sharp edges protruding. Abuse testing program is a toy. Made of stainless steel material. United States, Europe and China national standard test board size requirements vary.
Model: American USA Europe meet European Union
Standards: 16 CFR 1500.48 16 CFR 1500.49 EN-71 , **ISO 8124-1 4.9: 5.24.8 flexure test**
Thickness:2.28 mm



olution of laboratory

Key

1 vise shield fabricated from 1,7 mm cold-rolled steel
2 vise

Figure 23 — Flexure tester

Item 38.
TW-250 Infrared Thermometer

Features:
a) simple one-hand operation;
b) laser targeting;
c) LCD with back light;
d) C/F select switch;
e) laser on/off switch;
f) automatic power off;
g) display hold function
Standard: ISO8124-1 4.23: 5.18

Item 39.
TW-257 2m/s Tester

TW-257 2 m/s. Tester

This instrument is mainly used for test rides at the speed of toys 2m / s when the value of the barrier imposed by force. Toys will be under test placed on the conveyor belt, the drive wheel until the toy speed of 2m / s and remain stable; the display shows the pressure sensor to the force sensing value, according to ability to judge the value of toy safety.
Conveyor belt Speed ： 2m/s (can be adjusting)
Dimensions：1530x630x750mm
Weight：750kg
Standards：16 CFR 1500 ASTM F963 8.20 ;ISO 8124 5.17

Item 40.

TW-257 2m/s Tester

Dynamic strength tester is mainly used for testing function of the kids riding tricycle after hitting the 50x50mm barrier at the speed of 2m / s

Purpose

This instrument imitates the state of children riding tricycle, put certain load on the sample, make it hit the 50x50mm barrier at the speed of 2m/s, then check if the sample structure and properties is good.

Standards: This instrument manufactures refer to **EN 71 section 8.22**

Sample :Children tricycle

Number of sample:1pcs

Test speed: 2±0.2m/s

Barrier Block: 50mmx50mm

Width of testing channel: 90cm

Dimensions: 153x450x156cm Control cabinet: 36x32x100cm

Weight: ≈650Kg

Power Supply: 1 ∮ AC 220V 50Hz

Item 41.

TW-317 Digital Push & Pull Meter

Ergonomic, durable, heavy-duty metal construction

· Push-button selectable lbf, kgf, and Newton units

· Programmable High/Low setpoints with LCD indicators

· Overload capacity 200% F.S.

· Overload alarm, display flashes at overload limit
· Low battery icon
· Selectable real time or peak mode operation
· Push-button tare function
· Reversible display
· Set of six adapters, AC charger/adapter and carrying case

DS2 digital force gauges feature a large, easy-to-read LCD display and simple push-button operation. An ergonomic metal housing protects the highly accurate loadcell and electronics in tough industrial environments.

· Accuracy: 0.2% F.S. LSD
· Selectable units: lbf (ozf), kgf (gf) or newtons
· Overload Capacity: 200% of F.S. (overload indicator flashes beyond 110% of F.S.)
· Data Processing Speed: 1000 data/second (30 data/second rate selectable)
· Display Update: 10 times/second
· Power: Rechargeable Ni-MH battery pack or AC adaptor
· Battery Indicator: Display flashes battery icon when battery is low
· Setpoints: Programmable high/low setpoints with LCD indicators

Item 42.
TL-405 Pointer Force Guage

With simple operation, precision, peak value maintance, indicate two scales in KG and Newton.

Application: electrics，components of Vehicle, Lighter & portfire , construction, fabric etc.

Handheld design, compact

Easy operation

Capacity: 10KG，20KG，30KG，50KG

Precision: ±1%

Travel: 10mm

Item 43.

TL-412 Imada Push&pull Scale

The rugged construction of the FB/PS force gauges will withstand industrial environments and yet retain calibration for extended periods.

Ergonomic design makes it ideal for hand held use, or it can be mounted to a test stand. The Zero-Tare ring allows you to zero the gauge to compensate for measuring attachments and changes in measuring position. The real time/peak hold selector switch allows you to observe transients or capture peaks. Many ranges are available to cover all of your measurement needs (also available in Newtons).

The FB series is sold in kits complete with force gauge, hard carrying case, five measuring attachments (flat head, conical, chisel, notched, and small hook) as well as a 3 inch extension shaft.

FB/PS Force Gauge Details :

a) Model: FB/FS manufacturer: Imada (Japan)

b) Simple, rugged, virtually maintenance free.

c) Retains a high degree of accuracy for extended periods.

d) Ergonomic, heavy-duty metal construction.

e) No batteries needed.

f) Intrinsically safe in hazardous environments.

g) Capacity up to 150 lbf (push and pull).

h) Overload capacity 165 lbf on all ranges.

i) Tare ring.

j) FB Ranges (Resolution) Accuracy: 0.3% F.S.

k) Real time and peak mode.

l) Full set of accessories and carrying case included.

Item 44.

TL-404 TTF Push Pull Tension Tester

It is used for providing large and steady strength during the tension testing

Most use in toy ‘s damage tension testing, provide the strength by air cylinder

Push-pull intensity maximum: 188/168kgf

Cylinder trip maximum: 125mm

Adjustable speed: 50-800mm/s

Cylinder base plate trip: 0-500mm

Withstanding pressure cylinder: 13.5kgf/cm2

Jaw size: 90 *40 mm

Adjustable stroke left jaw: ± 60 mm

Adjustable upper and lower jaw :0-120 mm stroke

Dimensions: 1620*320*420 mm

Weight: 80kg

Standards: 16 CFR 1500, ASTM F963 4.8, EN-71, ISO 8124

Item 45.

TNJ-041 AATCC Washing machine (Whirlpool)

Selected and certified for AATCC Test methods requiring repeated home laundering (methods 88 B+C, 124, 130, 135, 142, 143, 150, 172 and 179). Available in US domestic and international electrical specifications.

Application:To determine the dimensional stability (shrinkage or growth) of woven or knit textile fabrics and garments that take place when fabric are subjected to the conditions of consumer laundering. It has an attractive and durable appearance in modern testing laboratory. Available in US domestic (110V, 60Hz) and international (220V 50Hz) electrical specifications.

Features:AATCC recommended.

Model: 3XGSC9455

Top-loading home laundry washer.

Extra large capacity tub

Power Supply: 220V or 110V

dimension 1095× 685× 675mm

washing capacity 18 pound/8.2kg

washing method rolling plus stirring

Selected and certified for AATCC Test methods requiring repeated home laundering (methods 88 B+C, 124, 130, 135, 142, 143, 150, 172 and 179).

Essential proberty:

1. Washtemperature: 60 Degree Celsius +-3° or 140°Degree Fahrenheit +-5°.

2. Lukewarm-washing cycle: 29 Degree Celsius +-3°or 85 Degree Fahrenheit +-5°.

3. regular laundry / Cotton/Sturdy: 12 minutes

Below consumables are only for your reference.
AATCC Detergent (WOB)

AATCC 1993 STD WOB Detergent (Without Optical Brightener),24 LB/Tub
Standard: AATCC 61

AATCC Detergent (with brightener)

AATCC 1993 STD REF Detergent,drum of 24LB
Standard: AATCC 135&150

Item 46.

TNJ-042 AATCC Dryer Machine(whirlpool)

Selected and certified for AATCC Test methods requiring repeated home laundering (methods AATCC 88 B+C, 124, 130, 135, 142, 143, 150, 172, and 179). Available in US domestic and international electrical

It is a shrinkage tester appointed by American AATCC

Meets to AATCC standard testing method (88B+C, 124, 130, 135, 142, 143, 150, 172 and 179)

Drying methods: drying time for pre-school / incomplete dry clothes,air-dry; strong drying / incomplete dry clothes; automatic rotation 30-90 minute, cold crease.

Techniques:

Dimension:740× 710× 1100mm(L× W× H), 29*28*43Inch

Drying capacity: 18 pound/8.2kg

Place of original: USA

Weight: 60kg(130LB)

Power: 220V/50Hz/30AN

WEIGHT：60 kg 130 lb

Item 47.

ISO Standard Precision Tumble Dryer

Standardised tumble drier.

Accurately test the drying temperature

Programmed time setting, digital temperature control

Machine size: 600 × 600 × 850mm

Weight: 35Kg

Maximum Load: 5Kg (dry weight)

Power Requirements: 230V, 2400W, 11A

Standard BS EN ISO 6330:2001, AATCC135, Marks & Spencer Plc, and other retail standards

Item 48.

TW-258 SAFQ Button Pull Test Machine

The button snap tester.To determine the holding or breaking strength of prong-ring attached snap fasteners onto garments. Consists of an Upper Snap Clamp, a Lower Fabric Clamp & Force Gauge mounted on a Stand. The snap component is gripped by the Upper Snap Clamp and the garment is fixed to the lower Fabric Clamp. By turning the Top Flywheel, the operator can apply a specific force and the holding force or the breaking strength can be recorded.

Used for measuring the responsibility of garment manufacturer to ensure

button and firmware can be fixed on the ready-made garments properly,

Avoiding button drop from garment to brought danger to baby swallow.

Used for testing the vertical orientation tension of button and added touch.

Dimensions : 280 x 230 x 735 mm （L×W×H）

Weight:25 kg

Standards: 16 CFR 1500.51-53, ASTM WK4510 PS79-96，ASTM F963，EN71-Part1,M&S P115A(for snap) P115(for button)

Package weight and size: 40kg; 87*43*33cm

Standard Accessories:

Upper Universal Clamp 1pcs
Test for female part of snap and male part of stud.

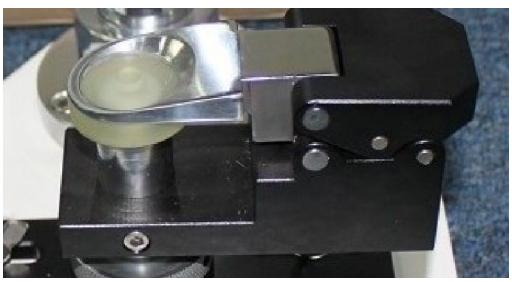
Uper Stud Clamp 1pcs
Test for male part of baby snaps but generally Upper

Three Pronged Clamp 1pcs
Test for four-hole buttons and Jeans buttons.

Two Pronged Clamp 1pcs

Upper Grasp Button Clamp 1pcs
Designed to gripping the grasp buttons or larger buttons,
e.g. Jeans or Plastic Button up to 30 ligne.

Lower Fabric Clamp , Lever Arm locking 1pcs
Fix the sample with buttons firmly, flatly and constantly so that fabric slippage can be minimized .



Upper Long Nose Vise Clamp 1pcs
Mainly used for trouser hooks and other smaller accessories.

Seam Test Clamp

For assisting suture pull testing used. Made from adaption of USA VISE-GRIP 6LN
Specification: jaw diameter19 mm, round handle

IMADA Push-pull Scale FB 100LB 1pcs
Dislay the reading of pulling force with capacity up to 100LBS

Calibration Weight 15 LB 1 pcs
Routine checking the accuracy of the Imada Force Gauge.

Item 49.

SP752 UV-Vis Spectrophotometer (made in China)

An UV-Vis spectrophotometer with power on self-testing, automatic wavelength calibration, light source auto-switching, PC controlled, etc.

SP-752 UV-Vis spectrophotometer takes use of high precision sine mechanism as a wavelength driver.

Program control, wavelength accuracy, and the linearity over the full wavelength are obviously better than those of the congener instruments in which gear and rack is used as a wavelength driver, and a gauge dial is used for wavelength display.

Parameters:

Photometric system	Single beam
Wavelength range	**200-1000nm**
Spectral bandwidth	**5nm**
Wavelength accuracy	±2nm
Wavelength repeatability	1nm
Photometric accuarcy	±0.5%T
Photometric repeatability	0.3%T
Stray light	≤0.5%T
Baseline stability	±0.002A/h（500nm 处）
Baseline flatness	-
Noise level	±0.002Abs
Photometric range	0-125%T、-0.097-3A
Data output	USB connector
Printout	Parallel Port

Display system	2*20 large screen LCD
Light source	Import long-life tungsten lamp、deuterium lamp
Detector	Import Si Photodiode
Overall dimension	475*420*180mm
Power	AC 220V/50Hz or 110V/60Hz
Weight	11kg

Standard Equipped Assessories:

1. manual Cuvettes Holder 10mm 1 pcs
2. 10ml standard glass cuvet 4 pcs
3. 10ml standard quartz cuvet 2 pcs
4. RS-232C line 1 pcs
5. Power line 1 pcs
6. Manual book 1 pcs
7. Win-Spec Software Win-sp5.0

Item 50.

UV1700 Spectrophotometer (Made in Japan)

It could be said that spectroscopy-based applications fall into two broad categories: Analytical determinations and routine quality control of sample preparations.TheUV-1700 spectrophotometer is suitable for both of these uses as it integrates accuracy, simplicity, and long-life among its features.

Scan-type spectrophotometer Features:

A) Wide wavelength range, satisfying requirement of various fields.

B) Three options for spectral bandwidth selection: 5nm, 2nm and 1nm, made according to customer's need and satisfy the requirements of pharmacopoeia.
C) Manual 4-cell holder accommodates width pathlength cells.
D) Optimized optics and electronic system design with over 30-year experience, ensuring high performance and reliability.
E) Rich measurement method adopted: Wavelength scan, time scan, multi-wavelength determination, etc., meet different measurement requirement.
F) Automatic 10mm 8-cell holder design, changeable to automatic 4-cell holder for 5mm~50mm cells.
G) The measured data can be printed out. RS-232 interface available for connecting computer. Parameter and standard curve can be saved.

This device is sensitivity, reliability and that it is user-friendly. Installation and Operational Qualifications at start-up, light source automatic position adjustment.

Specifications of UV Spectrophotometer:

Wavelength range	**190 to 1100nm**
Spectral bandwidth	1nm (190 to 900nm)
Wavelength display	0.1-nm increments
Wavelength setting	0.1-nm increments (1-nm increments when setting scanning range)
Wavelength accuracy	±0.3nm @ 656.1nm D2
Wavelength repeatability	±0.1nm
Stray light	less than 0.05% NaI @ 220nm, NaNO2 @ 340nm less than 1.0% KCl @ 198nm
Photometric system	Double Beam
Photometric range	Absorbance: -0.5 to 3.999 Abs Transmittance: 0% to 300%
Photometric accuarcy	±0.002 Abs (0.5Abs) ±0.004 Abs (1.0Abs)
Photometric repeatability	±0.001 Abs (0.5Abs) ±0.002 Abs (1Abs)
Baseline stability	less than 0.001 Abs/H @700nm (one hour after light source turned ON)

Baseline flatness	±0.001 Abs (200 to 1100nm,one hour after light source turned ON)
Noise level	0.002 Abs
Dimensions (W×D×H)	550(W) x 470(D) x 200(H)
Weight	17kg
Printers	DPU, ESC/P, PCL printers, USB I/F Windows-compliant printers are available with USB memory and PC software
Memory	USB memory (option) Saved as text and UVPC file
Performance for PC	USB memory + UVProbe (standard) Win

Item 51.

TW-315 Desktop Tension Tensile Strength Tester

This machine can widely apply to a variety of different textile materials and wood, shoes, tires, rubber tubes, triangular tape, plastic sheeting, plastic sheeting, packaging films, acrylic, FRP, ABS, EVA, PV and other products , semi-or dumbbell-shaped specimens of the tensile strength, elongation, tear, glue focused, tensile stress, peel, shear, the sticky relay of rubber and metal by using different fixtures

Parameters:
Capacity:5,10,20,50,100,200kg(or specified)
Load accuracy: ±0.5%

Switch unit:Kgf,lbf,N
Load solution: 1/10,000
Test speed: 30~500mm/min
Displacement accuracy: 0.001mm
Max stroke: 650mm/800mm/1000mm
Power:220V.60Hz, 24Am
Dimension: 500*460*1510mm
Weight:80 KG
Stroke Resolution: 0.1 mm
Data sampling frequency: 16 times / sec
Motor: servo motor (Taiwan)

Item 52.

TW-029 Dual Arm Computer Servo Tensile Strength Test Machine

This tensile machine can do various tensile testing in the field of rubber, plastics,chipboards, foam, plastic, film, flexible packaging, pipes, textiles, fibers, nanomaterials, polymers, composite materials, synthetic materials, packaging, paper, **wire** and cable, fiber optic cable, wirecables, seat belt, seat belt, leather belt, shoes, tape, polymer, copper, spring steel wire, stainless steel, castings, brass, non-ferrous metals, car parts, alloys and other non-metallicmaterials and metallic materials tensile, compression, bending, tearing, and 90 ° peel, 180 ° peel, shear adhesion, pull-out strength, an extension of the elongation test.

I. Features:

1, high-precision: ± 0.5%, high-resolution: 1/200000;

2, selectable programmable control: to achieve loop control of load, position, deformation, and time;

3, Using PHILIPS 32-bit ARM chip that is better than the industry DSP16-bit processing;

4, real-time acquisition,refresh curve and record test data, a variety of Report print Output;

5, can be used for the retention test (Constant);

6, can be used for products of low cycle (repeatedly) fatigue test;

7, the unit of force values: N, KN, Kgf, Lbf ,unit of length: mm, cm, in freely convertible

II. Control method:

Computer software to set speed, the load fracture (rupture), the running time,especially with the manual operation box: convenient calibration and fitted to hold the specimen positioning

Automatically determine the fracture of materials, when crushing it is automatic shutdown and automatically return

Curve types: curve longitudinal

The horizontal axis can be arbitrarily set.

The load to displacement;the load to time; displacement to time.

Stress to strain; strain to time; stress to time.

III. Specifications:

Maximum force capacity: **100N，200N，500N，1KN，2KN，5KN，10KN，20KN，50KN，100KN（choose）**

Force measurement accuracy: 0.5%

Test stroke: 1000mm, effective test width: 400 mm, or specified per customer

Test force loading the measuring range: 0.4% -100% FS

Resolution: maximum test force of 1/200000

Test speed :0.01 - 500mm / min. or specified per customer.

Displacement measurement accuracy: ± 0.5% of indication

Test force control rate adjustment range: 0.05% -5% FS / S

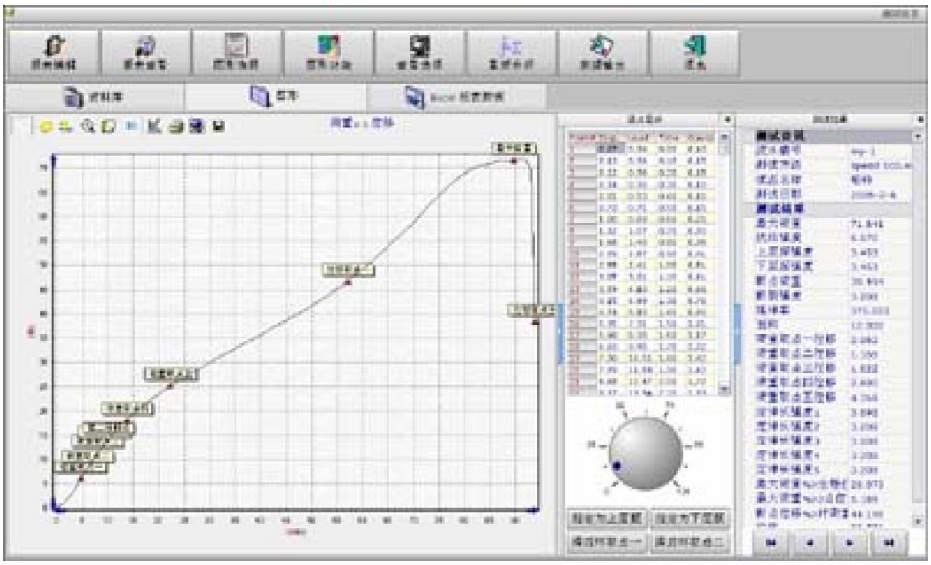
Control accuracy: ± 0.5% when the control rate ≥ 0.05% FS / S,

Net Weight: 150kg, Gross weght:220 kg (after wooden package)

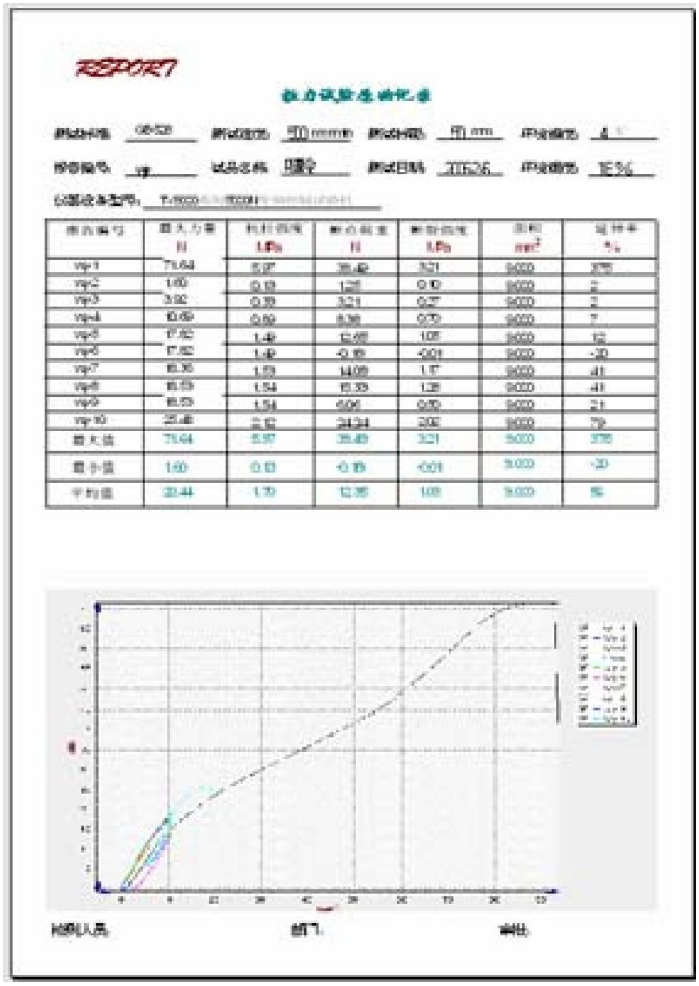
Package wooden box size: 67 x 102 x 193cm

IV. Software Operation Interface

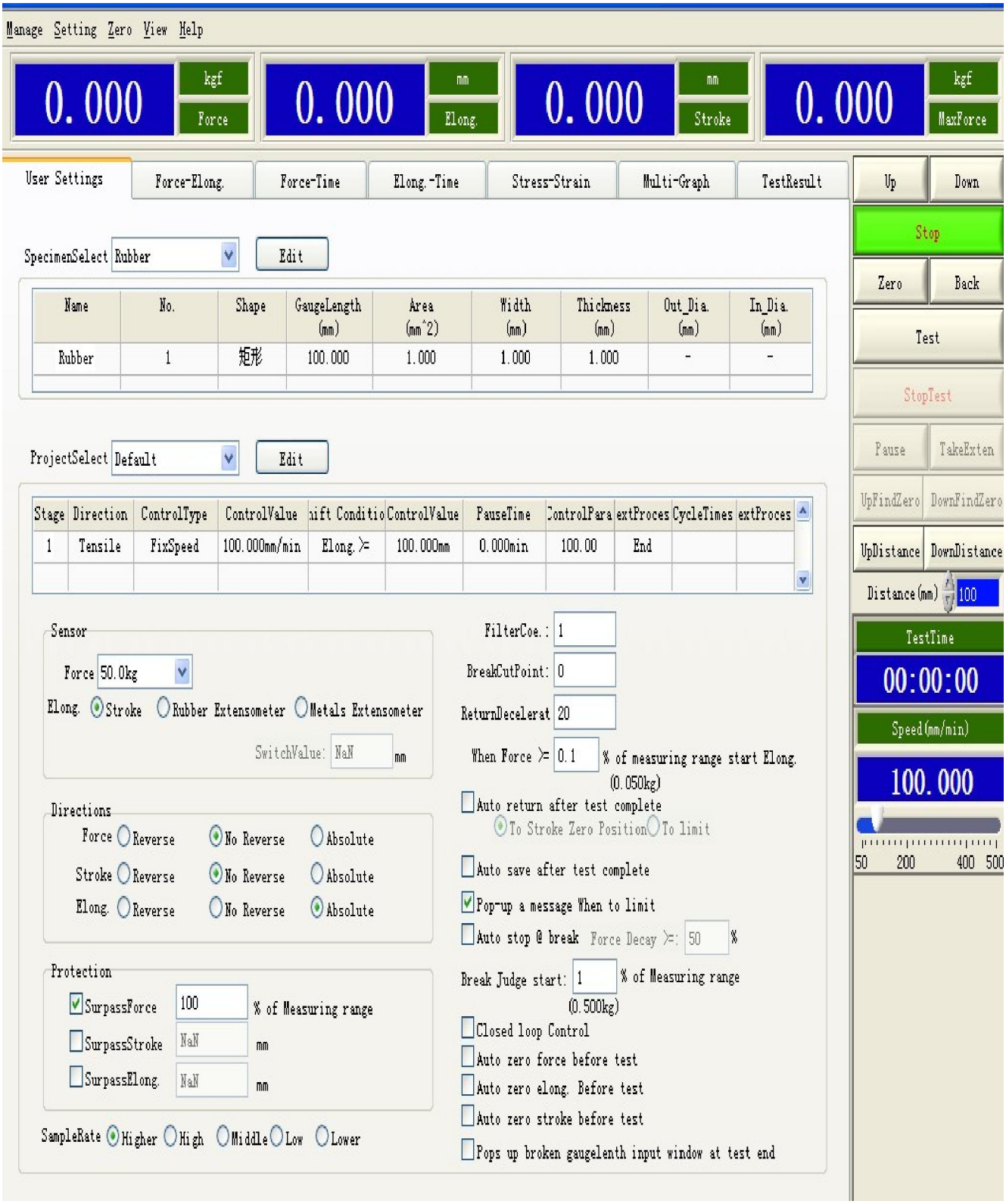
V. Test Result



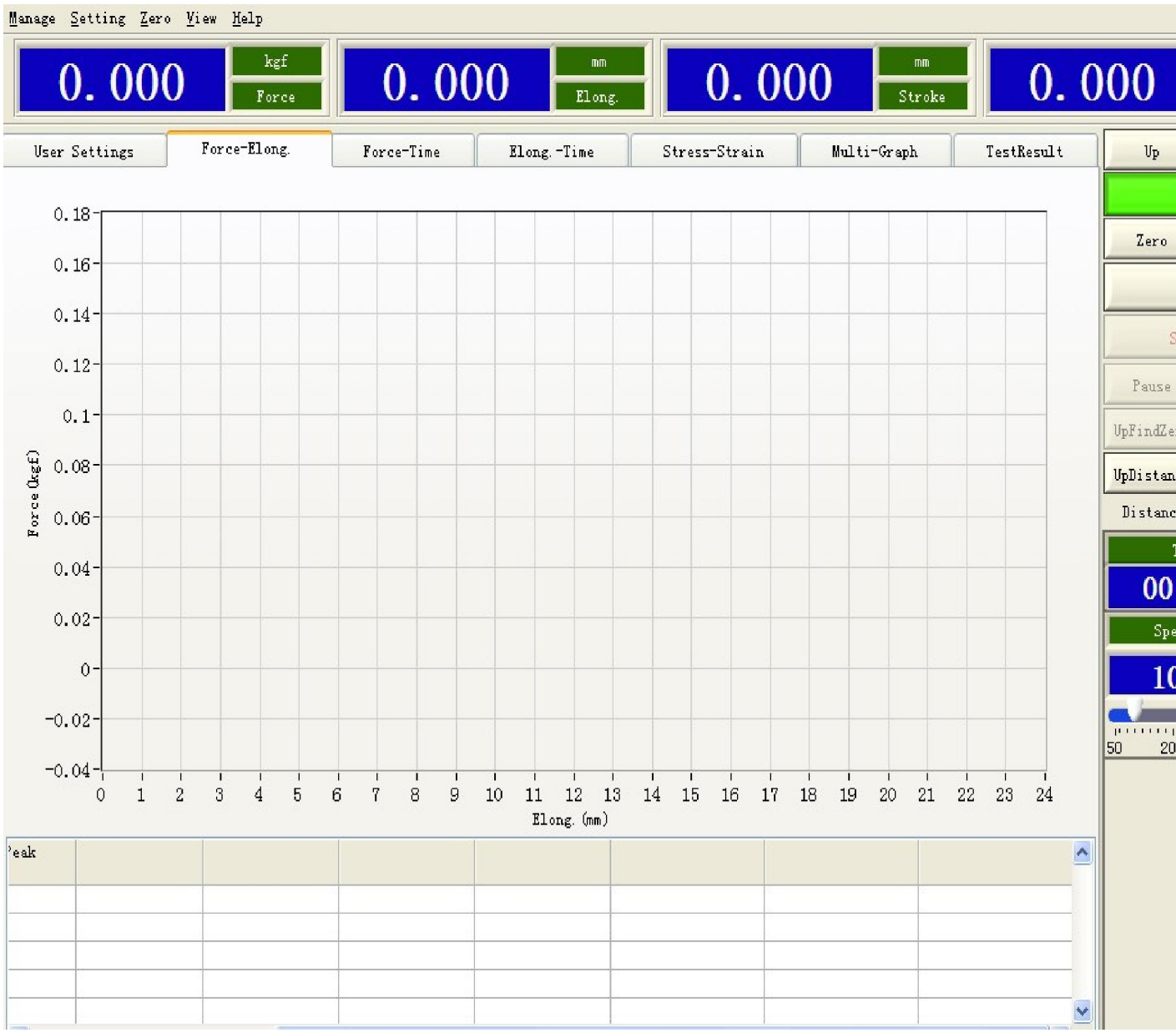
VI. Report



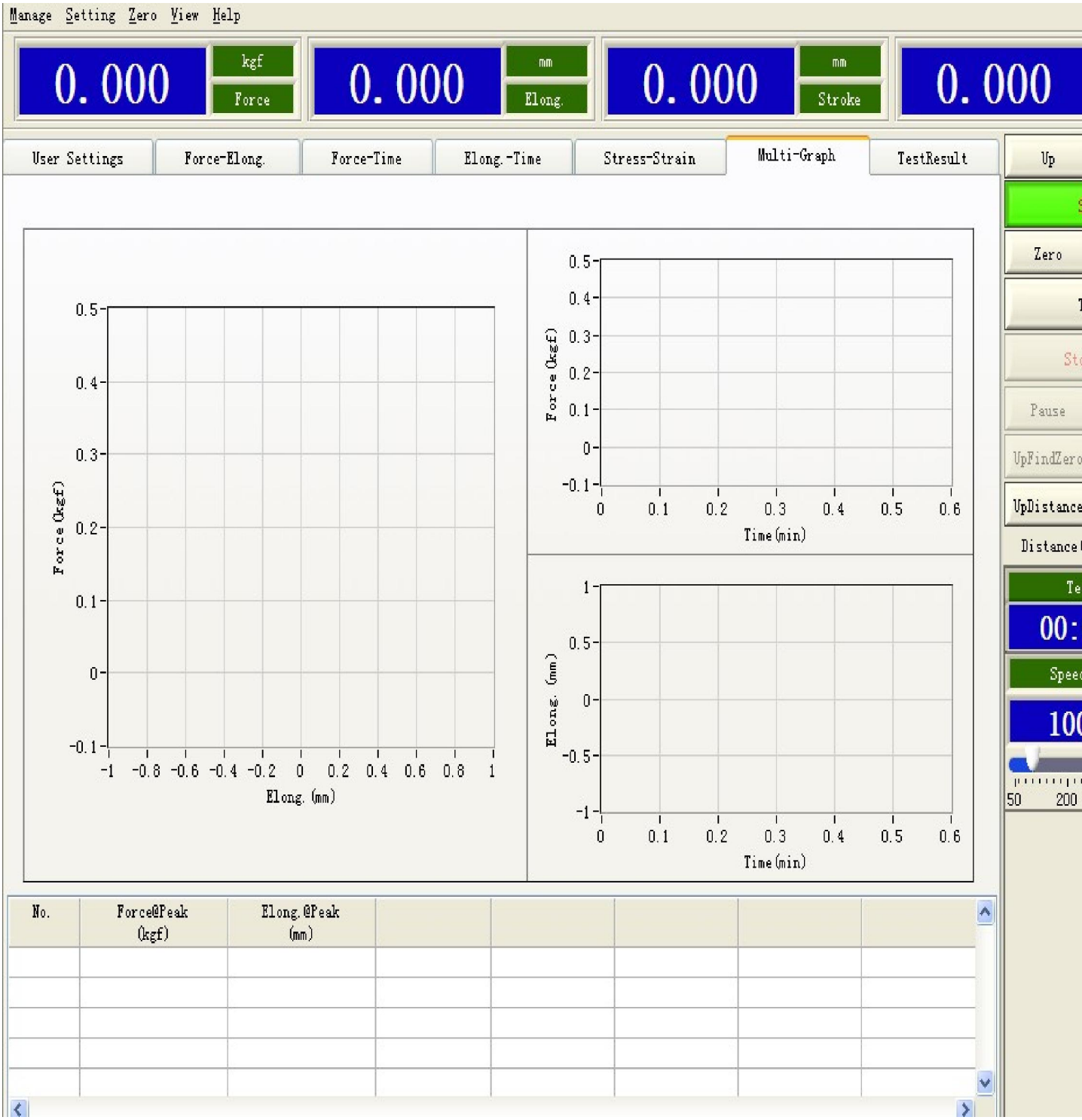
User Settings



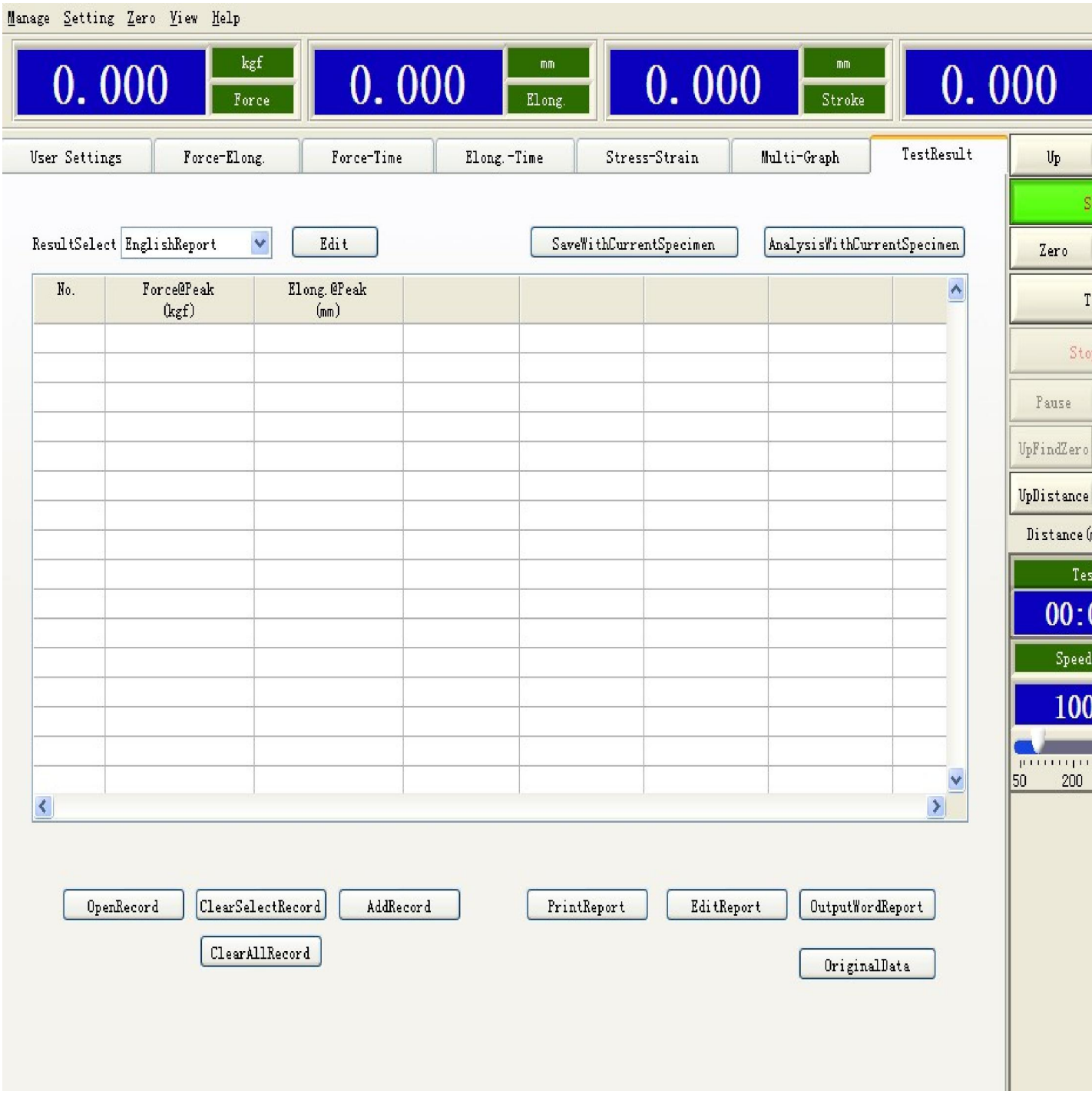
Force-elong


Manage Setting Zero View Help
0. 000
kgf
Force
0. 000
mm
Elong.
0. 000
mm
Stroke
0. 000
User Settings
Force-Elong.
Force-Time
Elong.-Time
Stress-Strain
Multi-Graph
TestResult
Up
Zero
Pause
Force (kgf)
Elong. (mm)
Peak

Multi-Graph

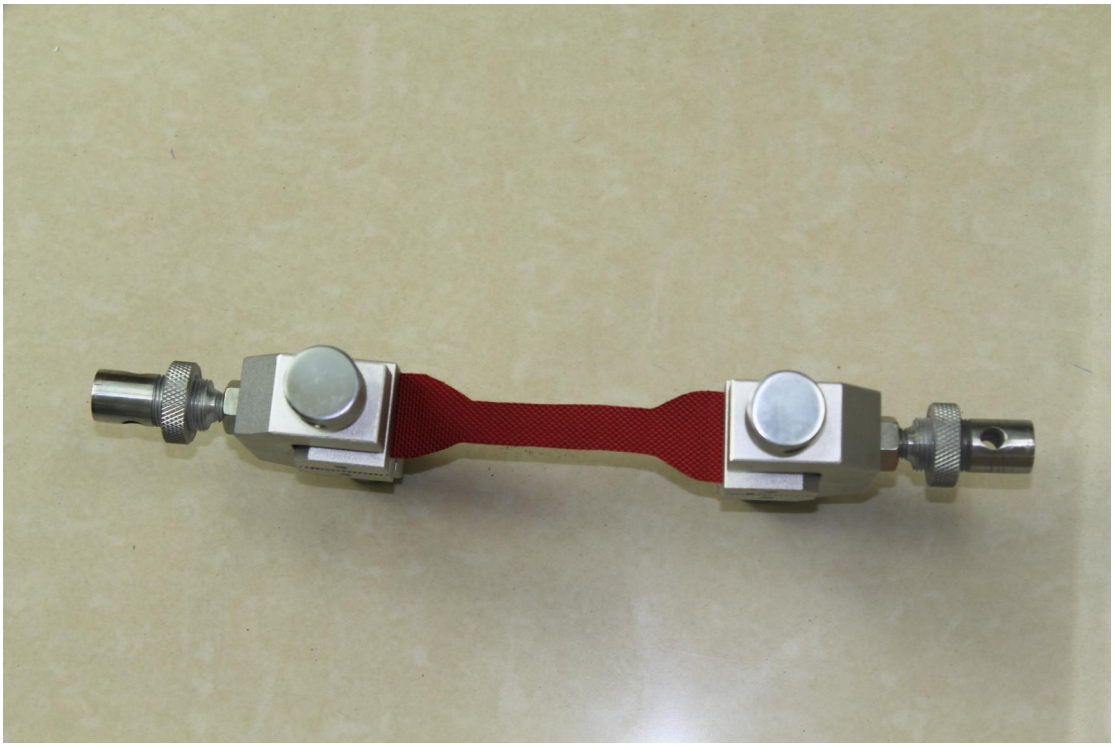

Manage Setting Zero View Help
0. 000
kgf
Force
0. 000
mm
Elong.
0. 000
mm
Stroke
0. 000
User Settings
Force-Elong.
Force-Time
Elong.-Time
Stress-Strain
Multi-Graph
TestResult
Up
Zero
Pause
UpFindZero
UpDistance
Distance
Force (kgf)
Elong. (mm)
Time (min)
No.
Force@Peak (kgf)
Elong.@Peak (mm)

Test Result

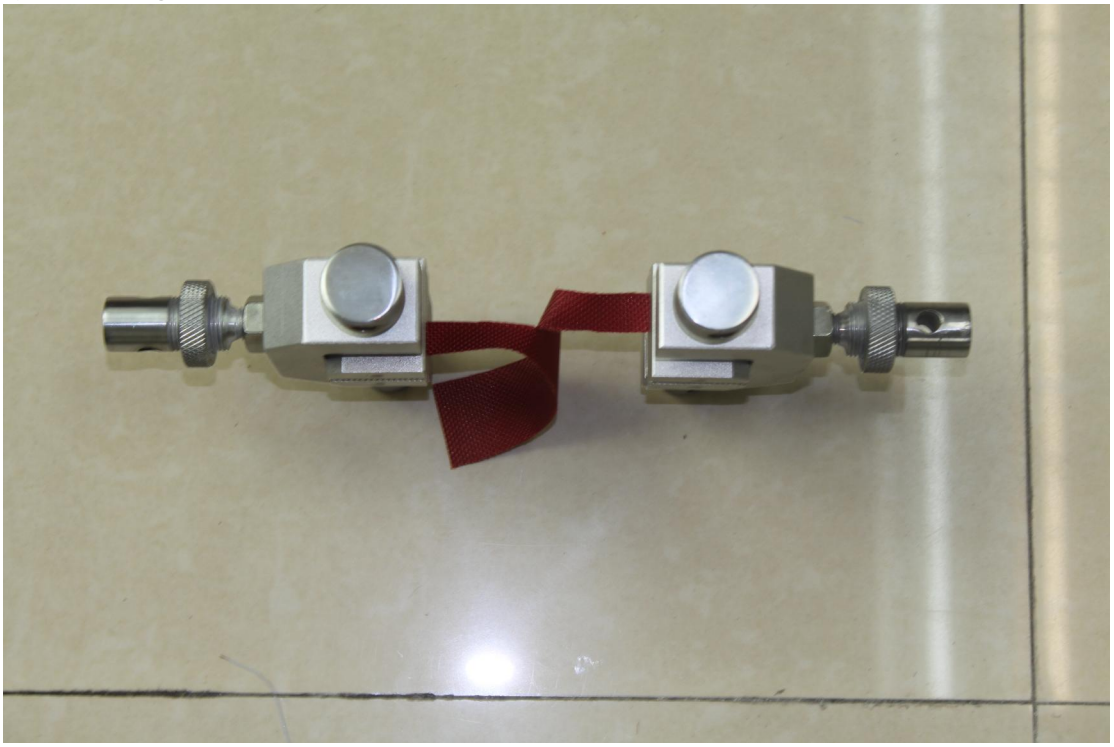

Manage Setting Zero View Help
0. 000
kgf
Force
0. 000
mm
Elong.
0. 000
mm
Stroke
0. 000
User Settings
Force-Elong.
Force-Time
Elong.-Time
Stress-Strain
Multi-Graph
TestResult
Up
ResultSelect
EnglishReport
Edit
SaveWithCurrentSpecimen
AnalysisWithCurrentSpecimen
No.
Force@Peak (kgf)
Elong.@Peak (mm)
OpenRecord
ClearSelectRecord
AddRecord
PrintReport
EditReport
OutputWordReport
ClearAllRecord
OriginalData
Zero
Pause
UpFindZero
UpDistance
Speed
50
200

Grips for Fabric and Leather(Grips could be made specified by customers)

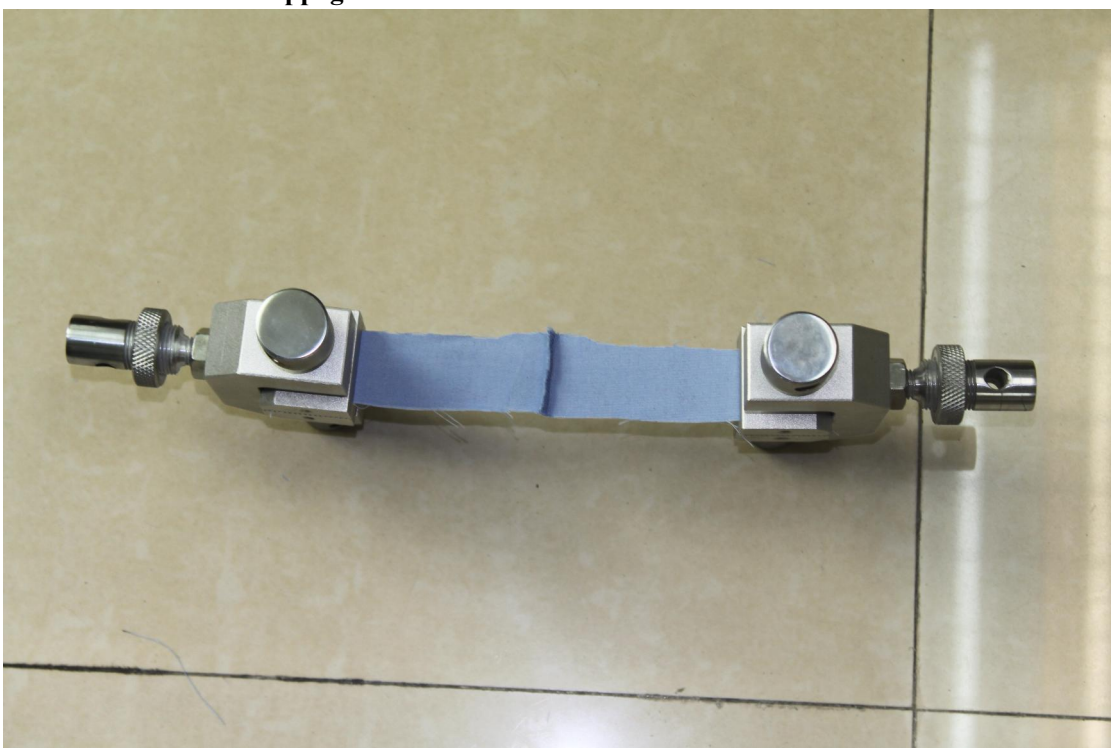
1) Tensile strength ISO 13934-1



2) Tear strength ISO 13937-2



Resistance to seam slippage ISO 13936-2



Some of our strategic partners as follow：

1深圳SGS通标技术服务有限公司
Shenzheng SGS-CSTC Standards Technical Services Co., Ltd (Physics Lab)

2青岛SGS通标技术服务有限公司
Qingdao SGS-CSTC Standards Technical Services Co., Ltd (Physics Lab)

3广州SGS通标技术服务有限公司 (Physics Lab)
4越南SGS Vietnam (Physics Lab)
5韩国SGS Korea (Physics Lab)
6墨西哥SGS Mexico (Physics Lab)
7香港SGS HK (Physics Lab)
8深圳计量研究院
Shenzhen Academy of Metrology & Quality Inspection (Physics Lab)

9广东清远出入境检验检疫局
Guangdong Entry-Exit Inspection and Quarantine Bureau-Qingyuan Branch (Physics Lab)

10广东惠州出入境检验检疫局
Guangdong Entry-Exit Inspection and Quarantine Bureau-Huizhou Branch (Physics Lab)

11安徽出入境检验检疫局 Anhui Entry-Exit Inspection and Quarantine Bureau (Physics Lab)

12河北省纤维检验局
Hebei Fiber inspection Bureau (Physics Lab)

13广西梧州出入境检验检疫局
Guangxi Entry-Exit Inspection and Quarantine Bureau-Wuzhou Branch

14中鼎检测技术服务有限公司 Consumer Testing Technology Co., Ltd (CTT)

15冠准检测技术服务有限公司 Accurate Technology Co.,Ltd(ATC)

16北南检测技术服务有限公司 NSTechnology Co.,Ltd(NST)

17BACL倍科检测技术服务有限公司 Bay Area Compliance Laboratories Corp.(BACL)

18深圳TUV莱茵检测技术服务有限公司 TUV Rheinland (Shenzhen) Co., Ltd.

19中山力创检测技术服务有限公司 Lctech(DongGuan)Testing Service Co.,Ltd

20华中科技大学工程制造研究院 HUST Manufacturing Engineering Institute

21 重庆市合川计量质量检测中心 (物理实验室)

22 福建林业研究院 Fujian Academy of Forestry Sciences

23新疆出入境检验检疫局 Xinjiang Entry-Exit Inspection and Quarantine Bureau

24敏华控股 Man Wah Holdings Limited

25东莞楷模家居用品有限公司 COOMO

26东莞佳居乐用品有限公司 Dongguan CACAR Kitchen
27深圳雅兰公司（国内卖场展示仪器）Shenzhen Airland Furniture Ltd.

28德国博克BOCK家具（中国、德国） (物理实验室) BOCK Gemany

29 Intertek 天祥中国

30 SGS Pakistan(Private) Limited

31 PT SGS INDONESIA

32 TUV RHEINLAND VIETNAM CO,.LTD TUV

33 TUV Rheinland of North America Softlines

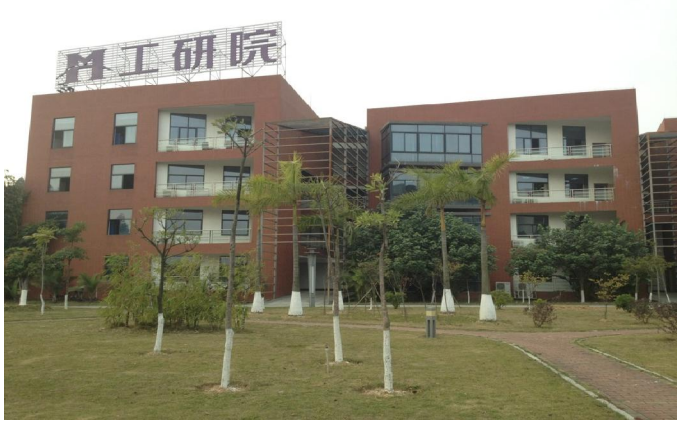
34 API Lab Testing Ltd

35 Cotecna Inspection Hong Kong Limited (Toys Testing Lab)

36 Applus(Shanghai) Quality Inspection Co., Ltd (EN71 Toys Testing Lab)

Company Profile

Established in 2001 at New Territories of HK and having the sales department at Dongguan city in 2004. Tony International(HK) Co., LTD is specializes in testing and measurement industry for toys and textile field. Continue its advanced design technology and concept, excellent technology of producing and outstanding system of quality management; providing the enterprises and the quality inspection agencies with high class products. All products meet the International testing standard. Meanwhile, we provide customer with complete solutions of laboratory.



Sincerely administration make Tony sales network extend all over the world. Up to today Tony products spread to countrywide users.We take pride in having a long list of satisfied customers, who always look up to us for their various requirements. Most of our customers are satisfied from our products and services and as a result of which, we are getting repeat orders. Some of our important customers, include:

SGS in France,SGS in Vietnam, SGS in China,SGS inKorea,Intertek in China,SAT in China,BACL in Shenzhen, NSF in Shanghai, ITS,BV,TUV etc

The quality proves value, the effort brings success

What you concerning is we are struggling all the time.....

CERTIFICATION INTERNATIONAL

Certificate of Registration

This is to certify that

Tony Instrument Co., Ltd.
No. 9, F8, The Center Point Business Center, No.2 Dongzong Road, Dongguan City, Guangdong Province, P.R. China

operates a quality management system which has been assessed as conforming to

ISO 9001:2008

for the scope of activities

Design, manufacture, assembly and sale of laboratory testing instruments.

Certificate No: **CI/13878** Issue Date: **08 November 2012**
Valid until **07 November 2015** subject to adherence to the agreed ongoing audit programme, successful endorsement of certification following each audit and compliance with CI Regulations

Signed for and on behalf of

Group Head of Certification

UKAS MANAGEMENT SYSTEMS 063

IAF

Annual surveillance audit for the first time

Annual surveillance audit for the second time

Note: According to the certification requirements, the interval between the annual surveillance audit and the last spot audit cannot exceed twelve months.

Certification International (UK) Ltd., Delta 300, Delta Business Park, Great Western Way, Swindon, Wiltshire, SN5 7XP, United Kingdom

www.cert-int.com

CERTIFICATION INTERNATIONAL

质量体系认证证书

兹证明

东莞市东尼仪器有限公司
中国广东省东莞市莞城东纵路 2 号地王写字楼 8 层 9 号

建立的质量管理体系经审核符合以下标准要求：

ISO 9001:2008

认证范围

检测仪器的研发、生产组装和销售

证书编号：**CI/13878** 发证日期：**08/11/2012**
有效期至 **07/11/2015** 须接受后续监督审核，并遵守 CI 相关规定，证书才可保持有效。

Signed for and on behalf of

Group Head of Certification

UKAS MANAGEMENT SYSTEMS 063

IAF

第一次年监（贴标有效）

第二次年监（贴标有效）

注：按照认证要求，每次监督审核时间与上次现场审核时间间隔不能超过 12 个月。

Certification International (UK) Ltd., Delta 300, Delta Business Park, Great Western Way, Swindon, Wiltshire, SN5 7XP, United Kingdom

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Show room: